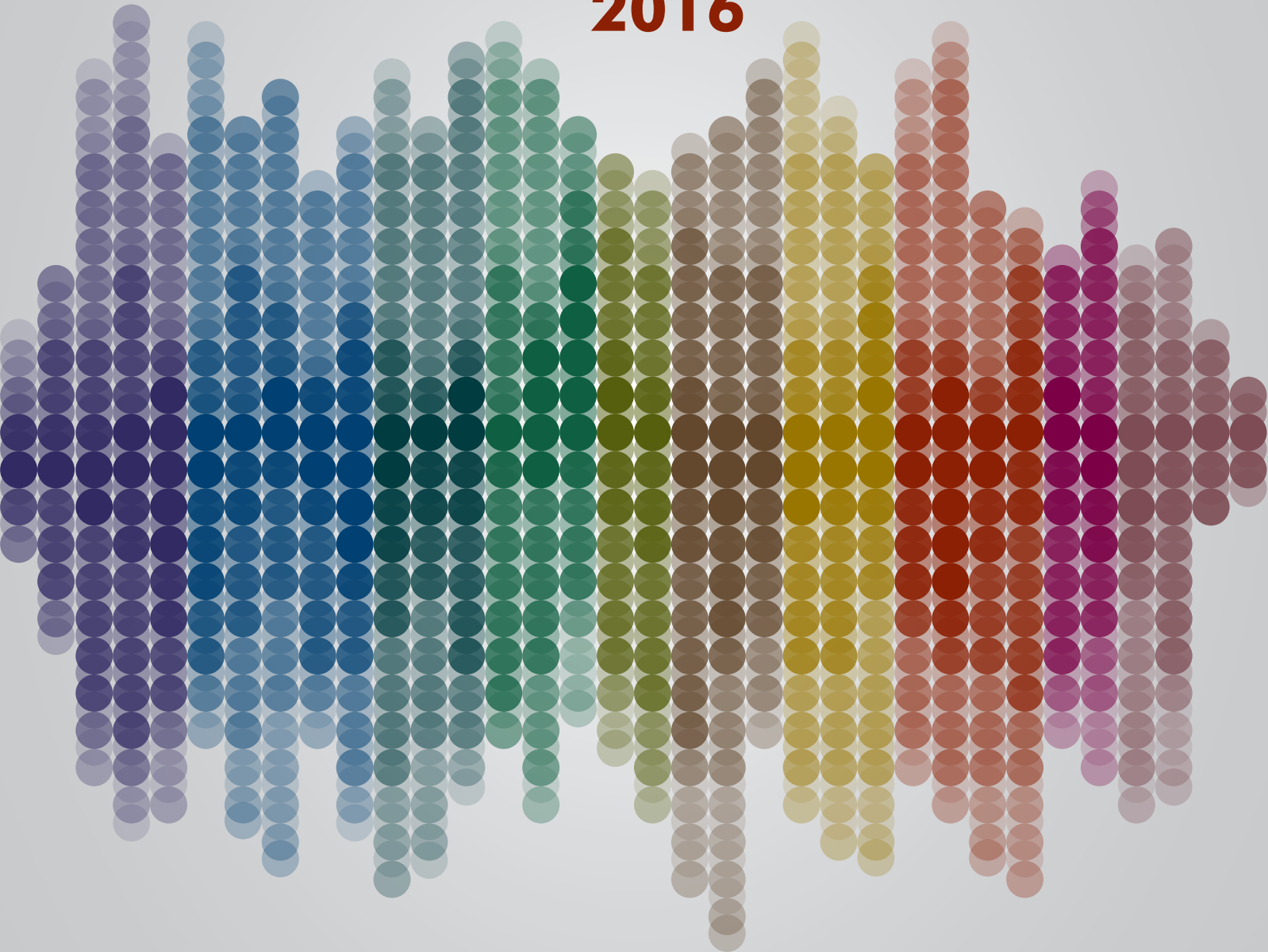


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ACA Youth Outcomes Battery Norming Tables 2016



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PREFACE

These norms have been established for the ACA Youth Outcomes Battery (YOB) (Basic and Detailed) as a way to provide benchmarks for camps that wish to have some comparison points for their own evaluations that use the YOB. The focus of these norms is on the eleven basic scales developed for use in camps or other youth settings. The norms are stated in 10 percent increments as a way to simplify their use. The tables include norms in general (includes both day and overnight camps), overnight camp only, gender, and age groups. While the psychometrics are not included in this document, specifics can be requested from ACA (research@ACAacamps.org) as well as checking www.ACAacamps.org/research/enhance/youth-outcomesresources. We hope these norms will help you document not only the specific outcomes you intentionally target but also your ability to offer quality camp experiences for your participants!

Instructions for Using the Normative Data for Comparisons — YOB Basic

1. Collect the desired outcome data for your camp or other youth development setting using the basic (retrospective change only) form of the YOB scales.
2. Calculate average (mean) scores for the outcomes. These means must be scaled to match the YOB means (1–5 for all outcomes except Camp Connectedness, which is 1–6). This is typically done by adding the raw item scores together and then dividing by the number of items for each camper. All camper scores can then be averaged together to create a “camp” or “session” average for the YOB scale of interest. (Note: the online YOB 2.0 automatically generates these statistical reports for subscribers.)n then be compared to the normative means and percentiles included in this report.
3. This average score can then be compared to the normative means and percentiles included in this report.
4. As an example, if an ACA-accredited overnight camp was interested in knowing if their campers increased by the end of the session on Friendship Skills (FS), Problem Solving Confidence (PS), and Independence (IND), it might administer these YOB (Basic) scales to its campers. It would then create means for each subscale. For this example, assume that the means were 2.7 for FS, 3.5 for PS, and 4.2 for Independence. Using Table 1 for FS, 2.7 falls between 2.5 and 2.97. Therefore, this camp’s campers scored about half way between the 10th and 20th percentile compared to the normative sample of ACA-accredited resident campers. For Problem Solving Confidence and Independence, it would be correct to report that PS scores for this camp were at the 50th percentile (3.50) and that Independence (Ind) scores for this camp were just above the 70th percentile (4.125).
5. If an exact percentile is necessary for reporting, linear interpolation will yield a reasonable approximation of the precise percentile.

KEY FOR THE OUTCOMES MEASURES

FCB	Family Citizenship
COMP	Competence
RESP	Responsibility
IND	Independence
TW	Teamwork
PS	Problem-Solving
AE	Affinity for Exploration
CC	Camp Connectedness
FS	Friendship Skills
AN	Affinity for Nature
SWB	Spiritual Well-Being

NORMS - YOB BASIC

Table 1. Normative Statistics for All Campers

		FCB	COMP	RESP	IND	TW	PS	AE	CC	FS	AN	SWB
PERCENTILE	10	2	2.375	2	2.1333	2.125	2	2.75	4	2.4286	2.2	2
	20	2.3333	2.75	2.5	2.6667	2.625	2.25	3.125	4.6667	2.9286	2.8	2.5
	30	2.6667	3	2.8333	3	3	2.625	3.5	5.0833	3.3571	3.3	3
	40	3	3.25	3.1667	3.3333	3.25	3	3.875	5.3333	3.6429	3.8	3.3333
	50	3.3333	3.625	3.5	3.6667	3.625	3.25	4.125	5.5	4	4.1	4
	60	3.5	3.875	3.8333	4	3.875	3.5	4.375	5.5833	4.2143	4.4	4.3333
	70	3.8333	4.125	4.1667	4.3333	4.125	4	4.5	5.75	4.5	4.7	4.6667
	80	4.1667	4.375	4.5	4.5	4.5	4.25	4.75	5.9167	4.7143	4.9	5
	90	4.6667	4.75	4.8333	4.8333	4.75	4.75	5	6	4.9286	5	5
Mean		3.3107	3.5486	3.4828	3.5938	3.5259	3.2895	3.9371	5.2116	3.8041	3.8393	3.7024
Median		3.3333	3.625	3.5	3.6667	3.625	3.25	4.125	5.5	4	4.1	4
Std. Deviation		0.91044	0.86796	0.97963	0.97629	0.95158	0.96966	0.8507	0.85282	0.93005	0.05744	0.1281

Table 2. Normative Statistics for Resident Campers Only

		FCB	COMP	RESP	IND	TW	PS	AE	CC	FS	AN	SWB
PERCENTILE	10	2	2.375	2	2.1667	2.125	2	2.75	4	2.5	2.2	2
	20	2.5	2.75	2.5	2.6667	2.525	2.25	3.125	4.75	2.9714	2.8	2.5
	30	2.6667	3	2.8333	3	3	2.625	3.5	5.0833	3.3571	3.3	3
	40	3	3.375	3.1667	3.5	3.25	3	3.875	5.3333	3.6429	3.8	3.3333
	50	3.3333	3.625	3.5	3.8333	3.625	3.25	4.125	5.5	4	4	4
	60	3.5	3.875	3.8333	4	3.875	3.5	4.375	5.6667	4.2143	4.5	4.3333
	70	3.8333	4.125	4.1667	4.3333	4.125	4	4.5	5.75	4.5	4.7	4.6667
	80	4.1667	4.375	4.5	4.6667	4.5	4.25	4.75	5.9167	4.7143	5	5
	90	4.6667	4.75	4.8333	5	4.75	4.75	5	6	4.9286	5	5
Mean		3.3196	3.5718	3.4837	3.6429	3.5285	3.2979	3.9523	5.2583	3.8225	3.8488	3.7354
Median		3.3333	3.625	3.5	3.8333	3.625	3.25	4.125	5.5	4	4	4
Std. Deviation		0.90696	0.86236	0.97879	0.96457	0.95268	0.97212	0.81489	0.78912	0.89106	0.05103	0.12482

Table 3. Normative Statistics for Female Campers Only

		FCB	COMP	RESP	IND	TW	PS	AE	CC	FS	AN	SWB
PERCENTILE	10	2	2.375	2	2.1667	2.125	2	2.75	4.0833	2.5	2.1	2
	20	2.5	2.75	2.5	2.6667	2.625	2.25	3.125	4.75	3	2.7	2.6667
	30	2.6667	3	2.8333	3	3	2.625	3.625	5.0833	3.4286	3.2	3.1333
	40	3	3.375	3.1667	3.3333	3.25	3	3.875	5.3333	3.7857	3.7	3.5
	50	3.3333	3.625	3.6667	3.6667	3.625	3.25	4.125	5.5	4	4	4.1667
	60	3.6667	3.875	3.8333	4	4	3.625	4.375	5.6667	4.2857	4.4	4.3333
	70	4	4.125	4.1667	4.3333	4.25	4	4.625	5.75	4.5	4.6	4.6667
	80	4.3333	4.425	4.5	4.6667	4.5	4.375	4.75	5.85	4.7143	4.9	5
	90	4.6667	4.75	4.8333	5	4.875	4.75	5	6	4.9286	5	5
Mean		3.3511	3.5924	3.5075	3.622	3.5649	3.3175	3.978	5.242	3.8772	3.8041	3.8042
Median		3.3333	3.625	3.6667	3.6667	3.625	3.25	4.125	5.5	4	4	4.1667
Std. Deviation		0.91448	0.85886	0.98732	0.98605	0.96416	0.97875	0.81711	0.79109	0.88109	1.06668	1.08118

Table 4. Normative Statistics for Male Campers Only

		FCB	COMP	RESP	IND	TW	PS	AE	CC	FS	AN	SWB
PERCENTILE	10	2	2.125	2	2	2	2	2.5875	4	2.2143	2.2	2
	20	2.3333	2.5	2.5	2.5	2.5	2.125	3.125	4.5833	2.7857	2.9	2.3333
	30	2.6	2.875	2.8333	2.8333	2.875	2.5	3.375	5	3.0714	3.4	2.8333
	40	2.8333	3.25	3	3.3333	3.25	2.875	3.75	5.3	3.4286	3.9	3.1667
	50	3.1667	3.5	3.3333	3.6667	3.5	3.125	4	5.5	3.7143	4.2	3.6667
	60	3.5	3.75	3.8333	3.8333	3.75	3.375	4.25	5.5833	4.0714	4.5	4.1667
	70	3.6667	4	4	4.1667	4	3.75	4.5	5.75	4.4286	4.7	4.5
	80	4	4.25	4.3333	4.5	4.375	4.125	4.75	5.85	4.6429	4.9	4.8333
	90	4.5	4.625	4.8333	4.8333	4.625	4.625	5	6	4.9929	5	5
Mean		3.2113	3.4364	3.4182	3.5191	3.4362	3.2102	3.8657	5.1424	3.6661	3.9026	3.5913
Median		3.1667	3.5	3.3333	3.6667	3.5	3.125	4	5.5	3.7143	4.2	3.6667
Std. Deviation		0.90343	0.88925	0.97097	0.96057	0.92301	0.94042	0.89271	0.97121	0.98784	1.03419	1.15828

Table 5. Normative Statistics for Campers' 10 and Under

		FCB	COMP	RESP	IND	TW	PS	AE	CC	FS	AN	SWB
PERCENTILE	10	2	2.375	2	2.1667	2.125	2	2.625	3.5	2.4286	2.37	2
	20	2.5	2.75	2.5	2.8333	2.625	2.25	3.1	4.3333	3	3.2	2.5
	30	3	3.125	2.8333	3	3	2.625	3.5	4.8833	3.3929	3.6	3
	40	3.1667	3.375	3.1667	3.5	3.25	3	3.875	5.0833	3.7143	4.08	3.3333
	50	3.3333	3.625	3.6667	3.6667	3.625	3.25	4.125	5.25	4	4.4	4
	60	3.8333	3.875	4	4	4.075	3.625	4.375	5.5	4.3571	4.6	4.3333
	70	4.1667	4.25	4.3333	4.3333	4.375	4.125	4.625	5.6667	4.5714	4.8	4.6667
	80	4.5	4.625	4.6667	4.6667	4.625	4.5	4.75	5.75	4.7857	4.9	5
	90	4.8333	4.875	5	5	4.875	4.875	5	5.9167	5	5	5
Mean		3.4705	3.6275	3.5462	3.6421	3.5922	3.3502	3.9399	4.981	3.8558	4.0414	3.7008
Median		3.3333	3.625	3.6667	3.6667	3.625	3.25	4.125	5.25	4	4.4	4
Std. Deviation		0.95059	0.89796	1.02168	0.97002	0.99975	1.03313	0.89613	1.03004	0.94165	0.98085	1.19641

*Note: The YOB is designed for campers ages 10–17 and is especially well suited for campers ages 10–13 (ACA, 2011). The sample includes campers 7–9 years old (N = 141) and reflects a relatively small percentage (7.2 percent) of the entire sample. Nonetheless, given the YOB's intended age, data should be interpreted with caution.

Table 6. Normative Statistics for Campers Ages 11-12 Years

		FCB	COMP	RESP	IND	TW	PS	AE	CC	FS	AN	SWB
PERCENTILE	10	2	2.25	2	2.1667	2	2	2.625	3.75	2.2857	2	2
	20	2.5	2.625	2.3333	2.6667	2.5	2.25	3	4.4167	2.8571	2.4	2.9
	30	2.6667	3	2.8333	3	2.875	2.625	3.375	4.9167	3.2143	3	3.5
	40	3	3.25	3.1667	3.3333	3.25	2.875	3.625	5.25	3.5714	3.5	4
	50	3.3333	3.625	3.5	3.6667	3.5	3.25	4	5.4167	3.8571	4	4.3333
	60	3.5	3.875	3.8333	4	3.75	3.5	4.25	5.5833	4.1429	4.3	4.5
	70	4	4.125	4.1667	4.3333	4.125	3.875	4.375	5.6667	4.3571	4.6	4.8333
	80	4.1667	4.375	4.5	4.5	4.5	4.25	4.625	5.8333	4.6429	4.8	5
	90	4.6	4.75	4.8333	4.8333	4.75	4.75	4.875	6	4.8571	5	5
Mean		3.3257	3.5432	3.4591	3.6007	3.4656	3.2885	3.8373	5.1107	3.7246	3.6819	3.9502
Median		3.3333	3.625	3.5	3.6667	3.5	3.25	4	5.4167	3.8571	4	4.3333
Std. Deviation		0.89998	0.87545	0.97634	0.96041	0.95728	0.96976	0.84412	0.87734	0.92373	1.1186	1.09672

Table 7. Normative Statistics for Campers 13 Years Old

		FCB	COMP	RESP	IND	TW	PS	AE	CC	FS	AN	SWB
PERCENTILE	10	2	2.3375	2	2	2.125	2	2.75	4.3333	2.4286	2.11	2
	20	2.3333	2.5	2.5	2.3333	2.625	2.125	3.125	4.8667	2.8571	2.62	2.2333
	30	2.5	2.875	2.8333	2.8333	3	2.5	3.5	5.1667	3.1571	3.1	2.8333
	40	2.8333	3	3	3.1667	3.125	2.875	3.875	5.4167	3.5714	3.6	3
	50	3.1667	3.375	3.3333	3.6667	3.5	3	4.125	5.5	3.9286	4	3.6667
	60	3.3333	3.625	3.6667	4	3.75	3.375	4.375	5.6667	4.1429	4.4	4.1667
	70	3.6667	3.875	4	4.1667	4	3.625	4.625	5.8333	4.5	4.7	4.5
	80	4	4.2	4.1667	4.5	4.25	4	4.75	5.9167	4.7857	5	4.8333
	90	4.3333	4.5375	4.5333	4.8333	4.625	4.5	5	6	4.9286	5	5
Mean		3.1546	3.3785	3.3628	3.5041	3.452	3.1317	3.9541	5.3391	3.7736	3.8045	3.5317
Median		3.1667	3.375	3.3333	3.6667	3.5	3	4.125	5.5	3.9286	4	3.6667
Std. Deviation		0.85648	0.81299	0.90603	1.0089	0.88956	0.89111	0.84032	0.6869	0.92984	1.06009	1.15777

Table 8. Normative Statistics for Campers Ages 14 Years and Older

		FCB	COMP	RESP	IND	TW	PS	AE	CC	FS	AN	SWB
PERCENTILE	10	2	2.375	2	2	2.1875	2	3	4.5833	2.5714	2.4	2
	20	2.3333	2.75	2.5	2.5	2.75	2.25	3.375	5	3.0714	2.94	2.5
	30	2.5	3.125	2.95	3	3.125	2.75	3.75	5.4167	3.4286	3.4	2.8333
	40	3	3.375	3.3333	3.5	3.375	3	4	5.5833	3.8429	4	3.1667
	50	3.1667	3.625	3.6667	3.8333	3.75	3.3125	4.25	5.6667	4.0714	4.1	3.5
	60	3.5	3.875	4	4	4	3.625	4.5	5.75	4.3571	4.4	4.1667
	70	3.8333	4.125	4.1667	4.3333	4.25	4	4.625	5.8333	4.5714	4.7	4.5
	80	4	4.4	4.5	4.5	4.5	4.25	4.75	6	4.7857	5	4.8333
	90	4.5	4.625	4.8333	4.8333	4.875	4.625	5	6	5	5	5
Mean		3.2212	3.592	3.5415	3.5899	3.6325	3.3362	4.0726	5.4334	3.9117	3.9164	3.5869
Median		3.1667	3.625	3.6667	3.8333	3.75	3.3125	4.25	5.6667	4.0714	4.1	3.5
Std. Deviation		0.909	0.85268	0.99595	0.99803	0.91886	0.93915	0.798	0.71107	0.90448	0.98399	1.07417

Instructions for Using the Normative Data for Comparison — YOB Detailed

1. Collect the desired outcome data for your camp using the Detailed (status + retrospective change only) format of the YOB scales.
2. Calculate average (mean) scores for the outcomes using the YOB templates. This is typically done by adding the raw item scores together and then dividing by the number of items for each camper. All camper scores can then be averaged together to create a “camp” or “session” average for the YOB scale of interest.¹
3. This average score can then be compared to the normative means and percentiles included in this report.
4. As an example, if an ACA accredited overnight camp was interested in knowing how campers rated themselves (their status) on Problem Solving Confidence (PSC) and Affinity for Nature (AN –short form) and the perceived change while at camp, it might administer these two YOB subscales to its campers. It would then create means (or medians) for each subscale. For this example, assume that the means were 4.3 for PSC status and 5.55 for AN status. Using Table 3 for PSC, 4.3 falls between the 20th (4.13) and 30th percentile (4.50). Therefore, this camp’s campers scored in the bottom 30th percentile compared to the normative sample of ACA accredited day campers. Again, using Table 2 for Affinity for Nature Status, it would be correct to report that AN scores for this camp were close to the 50th percentile (5.60). Moving to table 3, would could assess the change scores. Assuming that the change scores were 5.15 for PSC and 5.06 for AN, the camp might report that the campers showed more positive change than 60% (5.13) and 30% (5.00) of the norming sample respectively.
5. If an exact percentile is necessary for reporting, linear interpolation will yield a reasonable approximation of the precise percentile. Otherwise, the Tables in Appendices B and C may be used.
6. Progress is being made to create online versions of the detailed YOB subscales, which would include comparisons to normative data. While this functionality is in the works, it is not currently available.

¹Note: Given the skewness of the status scores, a more representative number for comparison would actually be the median (or middle point) of a camp’s sample scores. As most users are more familiar with calculating and reporting means, and these work well for the change scores, we have indicated this process in the above instructions. However, if you are working in MS Excel, or another software package that readily calculates and works with medians, this would be desirable for the status scores and could also be used for the change scores. In MS Excel, there is a MEDIAN function.

KEY FOR THE OUTCOMES MEASURES	
FCB	Family Citizenship
COMP	Competence
RESP	Responsibility
IND	Independence
TW	Teamwork
PS	Problem-Solving
AE	Affinity for Exploration
CC	Camp Connectedness
FS	Friendship Skills
AN	Affinity for Nature
SWB	Spiritual Well-Being

NORMS - YOB DETAILED

Table 1. **STATUS** Norms for All Campers

		FCB	COMP	RESP	IND	TW	PS	AE	CC	FS	AN	SWB
PERCENTILE	10	4.17	4.25	4.5	4.13	4.38	3.5	4.75	4.5	4.31	3.6	3
	20	4.67	4.75	5	4.63	4.63	4.13	5.13	5	4.77	4.4	3.67
	30	5	5	5.33	5	5	4.5	5.38	5.33	5.08	5	4.33
	40	5.33	5.13	5.5	5.13	5.25	4.75	5.63	5.5	5.23	5.2	4.67
	50	5.5	5.38	5.67	5.38	5.38	5	5.75	5.67	5.46	5.6	5
	60	5.67	5.5	5.83	5.5	5.5	5.25	5.88	5.83	5.62	5.8	5.33
	70	5.83	5.63	5.83	5.63	5.63	5.38	6	6	5.77	6	5.67
	80	6	5.75	6	5.75	5.75	5.63	6	6	5.85	6	5.83
	90	6	6	6	6	5.88	5.88	6	6	6	6	6
Mean		5.22	5.17	5.4	5.16	5.19	4.81	5.51	5.42	5.26	5.15	4.77
Median		5.5	5.38	5.67	5.38	5.38	5	5.75	5.67	5.46	5.6	5
Std. Deviation		0.83	0.73	0.73	0.75	0.68	0.89	0.66	0.77	0.71	1.04	1.16

Table 2. **CHANGE** Norms for All Campers

		FCB	COMP	RESP	IND	TW	PS	AE	FS	AN	SWB
PERCENTILE	10	3.67	3.75	3.67	3.5	3.63	3.38	3.88	3.77	3.6	3
	20	4	4	4	3.88	4	3.88	4.13	4	4	3.67
	30	4.03	4.25	4.17	4.13	4.13	4	4.5	4.23	4.2	4
	40	4.33	4.5	4.5	4.25	4.38	4.13	4.75	4.54	4.6	4.17
	50	4.5	4.63	4.83	4.5	4.63	4.38	5	4.69	5	4.5
	60	4.83	4.88	5	4.75	4.75	4.5	5.25	5	5.2	4.83
	70	5.17	5.13	5.33	5	5	4.88	5.5	5.23	5.6	5.17
	80	5.67	5.38	5.67	5.25	5.25	5.13	5.75	5.52	5.8	5.5
	90	6	5.75	6	5.63	5.63	5.5	6	5.85	6	6
Mean		4.62	4.64	4.72	4.5	4.55	4.38	4.89	4.71	4.82	4.48
Median		4.5	4.63	4.83	4.5	4.63	4.38	5	4.69	5	4.5
Std. Deviation		0.93	0.88	0.95	0.83	0.82	0.83	0.92	0.85	1.06	1.09

Table 3. STATUS Norms for Overnight Campers Only

		FCB	COMP	RESP	IND	TW	PS	AE	CC	FS	AN	SWB
PERCENTILE	10	4.17	4.25	4.5	4.13	4.35	3.5	4.75	4.38	4.31	3.6	3.17
	20	4.83	4.75	5	4.63	4.63	4.13	5.13	5	4.77	4.4	3.67
	30	5	5	5.33	4.88	4.88	4.5	5.38	5.33	5.08	5	4.33
	40	5.33	5.13	5.5	5.13	5.13	4.75	5.63	5.5	5.23	5.2	4.67
	50	5.5	5.25	5.67	5.38	5.38	5	5.75	5.67	5.46	5.6	5.17
	60	5.67	5.5	5.83	5.5	5.5	5.13	5.88	5.83	5.62	5.8	5.5
	70	5.83	5.63	5.83	5.63	5.63	5.38	6	6	5.77	6	5.67
	80	6	5.75	6	5.75	5.75	5.63	6	6	5.85	6	5.83
	90	6	6	6	5.88	5.88	5.75	6	6	6	6	6
Mean		5.27	5.18	5.42	5.14	5.18	4.79	5.53	5.44	5.26	5.16	4.8
Median		5.5	5.25	5.67	5.38	5.38	5	5.75	5.67	5.46	5.6	5.17
Std. Deviation		0.8	0.69	0.71	0.77	0.66	0.88	0.64	0.73	0.7	1.04	1.14

Table 4. CHANGE Norms for Overnight Campers Only

		FCB	COMP	RESP	IND	TW	PS	AE	FS	AN	SWB
PERCENTILE	10	3.67	3.75	3.67	3.5	3.63	3.5	3.88	3.85	3.6	3.17
	20	4	4	4	3.88	4	3.88	4.13	4.08	4	3.83
	30	4.17	4.25	4.17	4.13	4.13	4	4.5	4.31	4.4	4
	40	4.33	4.5	4.5	4.25	4.38	4.25	4.75	4.62	4.8	4.17
	50	4.67	4.69	4.83	4.5	4.63	4.38	5	4.77	5	4.5
	60	5	4.95	5.17	4.75	4.75	4.5	5.25	5.08	5.4	4.83
	70	5.33	5.13	5.33	5	5.11	4.88	5.63	5.23	5.6	5.17
	80	5.67	5.5	5.67	5.25	5.38	5.13	5.75	5.54	6	5.5
	90	6	5.75	6	5.63	5.63	5.5	6	5.85	6	6
Mean		4.67	4.66	4.75	4.54	4.59	4.41	4.91	4.76	4.87	4.51
Median		4.67	4.69	4.83	4.5	4.63	4.38	5	4.77	5	4.5
Std. Deviation		0.94	0.88	0.96	0.82	0.81	0.81	0.94	0.83	1.05	1.07

Table 5. STATUS Norms for Male Campers

	FCB	COMP	RESP	IND	TW	PS	AE	CC	FS	AN	SWB	
PERCENTILE	10	4.1667	4.0375	4	4	4.125	3.5	4.675	4.1667	4.1538	3.6	3.3333
	20	4.6667	4.625	4.6667	4.625	4.5	4	5.125	4.6667	4.6154	4.4	3.6667
	30	5	4.875	5	4.875	4.875	4.375	5.375	5.1667	4.9231	5	4.3333
	40	5.1667	5	5.3333	5.125	5.125	4.75	5.5	5.5	5.1538	5.2	4.6667
	50	5.3333	5.25	5.5	5.375	5.25	5	5.75	5.6667	5.3846	5.6	5
	60	5.5	5.375	5.6667	5.5	5.375	5.125	5.875	5.8333	5.5385	5.8	5.3333
	70	5.8333	5.625	5.8333	5.625	5.625	5.375	6	5.8333	5.6923	6	5.6667
	80	6	5.75	6	5.75	5.75	5.625	6	6	5.8462	6	6
	90	6	6	6	6	5.875	5.875	6	6	6	6	6
Mean	5.1914	5.0922	5.2456	5.1414	5.1184	4.7703	5.4768	5.299	5.1873	5.165	4.7759	
Median	5.3333	5.25	5.5	5.375	5.25	5	5.75	5.6667	5.3846	5.6	5	
Std. Deviation	0.83979	0.77386	0.8441	0.77174	0.75931	0.91377	0.70691	0.88326	0.76238	1.03742	1.1496	

Table 6. CHANGE Norms for Male Campers

	FCB	COMP	RESP	IND	TW	PS	AE	FS	AN	SWB	
PERCENTILE	10	3.5	3.625	3.5	3.5	3.625	3.375	3.85	3.5385	3.6	2.9167
	20	4	4	4	3.875	4	3.75	4.125	4	4	3.5
	30	4	4.25	4.1667	4	4.125	4	4.5	4.1538	4.2	4
	40	4.3333	4.375	4.5	4.25	4.25	4.125	4.75	4.4615	4.6	4.1667
	50	4.5	4.625	4.6667	4.4375	4.5	4.25	5	4.6923	5	4.4167
	60	4.8333	4.875	5	4.625	4.625	4.5	5.25	4.9231	5.2	4.8333
	70	5.1667	5.125	5.1667	4.875	4.875	4.75	5.5	5.1538	5.6	5.25
	80	5.5	5.375	5.5	5.25	5.125	5	5.75	5.4615	5.84	5.6667
	90	5.8333	5.75	5.8333	5.625	5.5	5.5	6	5.7692	6	6
Mean	4.5784	4.5897	4.6082	4.4583	4.4736	4.3351	4.8767	4.6343	4.8206	4.4437	
Median	4.5	4.625	4.6667	4.4375	4.5	4.25	5	4.6923	5	4.4167	
Std. Deviation	0.96046	0.91048	1.0147	0.81701	0.77985	0.8701	0.95401	0.87822	1.03927	1.17994	

Table 7. STATUS Norms for Female Campers

	FCB	COMP	RESP	IND	TW	PS	AE	CC	FS	AN	SWB	
PERCENTILE	10	4.1667	4.375	4.6667	4.125	4.375	3.625	4.75	4.6667	4.3846	3.6	3
	20	4.6667	4.75	5.1667	4.625	4.75	4.125	5.125	5.1667	4.8462	4.4	3.6667
	30	5	5	5.3333	5	5	4.5	5.375	5.5	5.1538	5	4.3333
	40	5.3333	5.25	5.5	5.25	5.25	4.75	5.625	5.6667	5.3077	5.28	4.6667
	50	5.5	5.375	5.6667	5.375	5.375	5	5.75	5.6667	5.4615	5.6	5
	60	5.6667	5.5	5.8333	5.5	5.5	5.25	5.875	5.8333	5.6154	5.8	5.3667
	70	5.8333	5.625	5.8333	5.625	5.625	5.375	6	6	5.7692	5.8	5.6667
	80	6	5.75	6	5.75	5.75	5.625	6	6	5.8462	6	5.8333
	90	6	6	6	5.9875	5.875	5.875	6	6	6	6	6
Mean	5.2394	5.2175	5.49	5.1756	5.2209	4.8376	5.5376	5.4852	5.3106	5.1479	4.7661	
Median	5.5	5.375	5.6667	5.375	5.375	5	5.75	5.6667	5.4615	5.6	5	
Std. Deviation	0.82257	0.68915	0.64638	0.74204	0.62251	0.87657	0.61674	0.69004	0.65396	1.04461	1.16107	

Table 8. CHANGE Norms for Female Campers

	FCB	COMP	RESP	IND	TW	PS	AE	FS	AN	SWB	
PERCENTILE	10	3.6667	3.75	3.8333	3.5	3.625	3.375	3.875	3.8462	3.4	3.1667
	20	4	4	4	4	4	3.875	4.125	4.0769	4	3.8333
	30	4.1667	4.25	4.2	4.125	4.125	4	4.5	4.3077	4.2	4
	40	4.3333	4.5	4.5	4.25	4.375	4.15	4.775	4.5385	4.8	4.1667
	50	4.6667	4.75	4.8333	4.5	4.625	4.375	5	4.7692	5	4.5
	60	5	5	5.1667	4.75	4.875	4.5	5.25	5.0769	5.4	4.8333
	70	5.1667	5.125	5.3333	5	5	4.875	5.575	5.2308	5.6	5.1667
	80	5.6667	5.5	5.6667	5.25	5.375	5.125	5.75	5.5385	5.8	5.5
	90	6	5.75	6	5.625	5.625	5.4625	6	5.8462	6	5.8333
Mean	4.6537	4.696	4.7917	4.5334	4.601	4.4023	4.9154	4.7635	4.819	4.4905	
Median	4.6667	4.75	4.8333	4.5	4.625	4.375	5	4.7692	5	4.5	
Std. Deviation	0.91366	0.83704	0.91391	0.83127	0.82542	0.80946	0.9028	0.83548	1.06863	1.03948	

Table 7. STATUS Norms for Campers up to Age 10

	FCB	COMP	RESP	IND	TW	PS	AE	CC	FS	AN	SWB	
PERCENTILE	10	4.3333	4.5	4.5	3.5	4.25	3.375	4.625	4.35	4.2308	3.8	3.5
	20	4.6667	4.8	5	4	4.625	4	5.125	4.8333	4.6923	4.4	4.3333
	30	5	5.125	5.3333	4.475	5	4.375	5.375	5.1667	5	5	4.6667
	40	5.1667	5.35	5.5	4.75	5.25	4.625	5.5	5.5	5.3077	5.36	5
	50	5.5	5.5	5.6667	5	5.375	4.875	5.75	5.6667	5.4615	5.6	5.5
	60	5.6667	5.625	5.7667	5.125	5.5	5.125	5.875	5.6667	5.6154	5.8	5.6667
	70	5.8333	5.75	5.8333	5.375	5.5	5.375	6	5.8333	5.7692	5.8	5.8333
	80	6	5.75	6	5.6	5.75	5.55	6	6	5.8462	6	6
	90	6	6	6	5.75	5.875	5.75	6	6	6	6	6
Mean	5.2847	5.2829	5.4342	4.771	5.1591	4.7368	5.4771	5.3377	5.2443	5.2063	5.0781	
Median	5.5	5.5	5.6667	5	5.375	4.875	5.75	5.6667	5.4615	5.6	5.5	
Std. Deviation	0.7124	0.69773	0.65973	0.89541	0.72768	0.90143	0.71822	0.79874	0.73985	0.931	0.95699	

Table 8. CHANGE Norms for Campers up to Age 10

	FCB	COMP	RESP	IND	TW	PS	AE	FS	AN	SWB	
PERCENTILE	10	3.5	3.2375	3.4167	3.35	3.375	3	3.5	3.5385	3.14	2.95
	20	4	4	4	3.75	4	3.5	4	4	4	3.5
	30	4	4.25	4.25	4	4.125	4	4.375	4.0769	4.2	4
	40	4.3333	4.5	4.5	4.125	4.375	4.125	4.625	4.4615	4.6	4.3
	50	4.6667	4.75	4.8333	4.375	4.625	4.375	4.875	4.6923	5	4.6667
	60	5	4.925	5.1667	4.725	4.75	4.5	5.125	5	5.4	4.8333
	70	5.3333	5.2875	5.4167	4.875	5.0125	4.875	5.375	5.3846	5.6	5
	80	5.6667	5.5	5.6667	5.125	5.25	5.25	5.75	5.7692	6	5.3333
	90	6	5.875	6	5.625	5.625	5.625	6	6	6	5.5
Mean	4.6368	4.6285	4.7192	4.3926	4.5358	4.3328	4.7824	4.725	4.7699	4.3969	
Median	4.6667	4.75	4.8333	4.375	4.625	4.375	4.875	4.6923	5	4.6667	
Std. Deviation	1.02668	1.01875	1.01803	0.90024	0.89205	0.94877	0.98578	0.9559	1.11239	1.05619	

Table 9. STATUS Norms for Campers Age 11-12

		FCB	COMP	RESP	IND	TW	PS	AE	CC	FS	AN	SWB
PERCENTILE	10	4	4.25	4.2167	4.125	4.25	3.375	4.5	4.35	4.1769	3.4	3
	20	4.6667	4.75	5	4.625	4.625	3.875	5.1	5	4.6923	4.4	3.5
	30	5	5	5.3333	4.875	5	4.375	5.375	5.2167	5	5	4.1833
	40	5.3333	5.125	5.5	5.125	5.25	4.625	5.625	5.5	5.2308	5.2	4.8
	50	5.5	5.25	5.6667	5.25	5.375	5	5.75	5.6667	5.3846	5.6	5.1667
	60	5.6667	5.5	5.8333	5.375	5.5	5.125	5.875	5.8333	5.5385	5.8	5.5
	70	5.8333	5.625	5.8333	5.625	5.625	5.375	5.875	5.8333	5.6923	6	5.6667
	80	5.8333	5.75	6	5.75	5.75	5.5	6	6	5.8462	6	6
	90	6	5.875	6	5.875	5.875	5.75	6	6	5.9231	6	6
Mean		5.1893	5.1748	5.3821	5.1198	5.1846	4.7259	5.4745	5.3789	5.213	5.1169	4.7894
Median		5.5	5.25	5.6667	5.25	5.375	5	5.75	5.6667	5.3846	5.6	5.1667
Std. Deviation		0.89888	0.68814	0.78277	0.71253	0.69835	0.9382	0.67542	0.76848	0.74817	1.10453	1.19238

Table 10. CHANGE Norms for Campers Age 11-12

		FCB	COMP	RESP	IND	TW	PS	AE	FS	AN	SWB
PERCENTILE	10	3.6333	3.625	3.8333	3.375	3.5	3.25	3.875	3.6923	3.2	3.1833
	20	4	4	4	3.875	4	3.7	4	4	4	3.8333
	30	4.1667	4.25	4.1667	4.125	4.125	4	4.375	4.2308	4.2	4
	40	4.3333	4.5	4.5	4.25	4.25	4	4.75	4.5077	4.6	4.3333
	50	4.6667	4.625	4.8333	4.5	4.5	4.25	5	4.6923	5	4.6667
	60	5	5	5	4.75	4.75	4.5	5.25	4.9231	5.2	5
	70	5.3333	5.125	5.3333	5	5	4.75	5.5	5.1538	5.6	5.45
	80	5.6667	5.5	5.6667	5.25	5.375	5	5.75	5.3846	5.8	5.8
	90	6	5.875	6	5.5	5.625	5.375	6	5.7692	6	6
Mean		4.668	4.6703	4.7574	4.4763	4.5394	4.2982	4.8965	4.6732	4.7391	4.6067
Median		4.6667	4.625	4.8333	4.5	4.5	4.25	5	4.6923	5	4.6667
Std. Deviation		0.92914	0.85146	0.92988	0.81077	0.84305	0.83461	0.91205	0.80021	1.11797	1.08554

Table 11. STATUS Norms for Campers Age 13

		FCB	COMP	RESP	IND	TW	PS	AE	CC	FS	AN	SWB
PERCENTILE	10	4.1667	4.25	4.25	4.3375	4.375	3.625	4.875	4.3333	4.3077	3.6	2.8333
	20	4.6667	4.75	5	4.75	4.675	4	5.25	5	4.8462	4.2	3.6667
	30	5	5	5.3333	5	5	4.45	5.5	5.3333	5.1538	5	4.3333
	40	5.3333	5.125	5.5	5.25	5.25	4.85	5.75	5.5	5.3077	5.2	4.6667
	50	5.5	5.375	5.6667	5.375	5.375	5	5.875	5.6667	5.4615	5.6	5
	60	5.6667	5.5	5.8333	5.5	5.5	5.25	6	5.8333	5.6154	5.8	5.3333
	70	5.8333	5.625	5.8333	5.75	5.625	5.375	6	6	5.7692	5.8	5.6667
	80	6	5.75	6	5.875	5.75	5.625	6	6	5.8462	6	5.8333
	90	6	6	6	6	5.875	5.875	6	6	6	6	6
	Mean	5.2675	5.1939	5.377	5.224	5.2107	4.8314	5.5854	5.4398	5.2889	5.1088	4.7416
	Median	5.5	5.375	5.6667	5.375	5.375	5	5.875	5.6667	5.4615	5.6	5
	Std. Deviation	0.80227	0.70863	0.76468	0.69937	0.6281	0.9025	0.64187	0.72382	0.67996	1.0749	1.21213

Table 12. CHANGE Norms for Campers Age 13

		FCB	COMP	RESP	IND	TW	PS	AE	FS	AN	SWB
PERCENTILE	10	3.5667	3.7375	3.5	3.5	3.625	3.375	3.875	3.7692	3.8	3
	20	4	4	4	3.875	3.95	3.875	4.125	4	4	3.6667
	30	4	4.25	4.1667	4	4.125	4	4.425	4.1538	4.2	4
	40	4.3333	4.375	4.5	4.25	4.25	4.125	4.75	4.4615	4.6	4
	50	4.5	4.625	4.6667	4.5	4.5	4.25	5	4.7692	5	4.3333
	60	4.6667	4.875	5	4.625	4.625	4.5	5.225	5.0769	5.4	4.6667
	70	5	5.125	5.1667	4.875	4.875	4.75	5.5	5.2308	5.6	5
	80	5.5	5.375	5.5	5.125	5.25	5.125	5.75	5.5077	5.8	5.5
	90	5.8333	5.75	5.8333	5.625	5.625	5.5	6	5.8462	6	5.8333
	Mean	4.5645	4.6305	4.6381	4.4748	4.5212	4.3935	4.895	4.6787	4.8456	4.3825
	Median	4.5	4.625	4.6667	4.5	4.5	4.25	5	4.7692	5	4.3333
	Std. Deviation	0.86746	0.81979	0.91287	0.81542	0.755	0.81563	0.88657	0.9288	0.98933	1.08549

Table 13. STATUS Norms for Campers Age 14 and up

	FCB	COMP	RESP	IND	TW	PS	AE	CC	FS	AN	SWB	
PERCENTILE	10	4.1167	4.125	4.5	4.625	4.375	3.75	4.875	4.6667	4.3846	4	3
	20	4.6667	4.625	5	5.125	4.75	4.25	5.25	5.1667	4.8462	4.6	3.5
	30	5	4.875	5.1667	5.25	5	4.625	5.375	5.5	5.0769	5	4.1667
	40	5.1667	5.125	5.5	5.375	5.125	4.875	5.5	5.6667	5.2308	5.2	4.6667
	50	5.3333	5.25	5.6667	5.5	5.25	5.125	5.75	5.8333	5.4615	5.6	5
	60	5.5	5.375	5.8333	5.625	5.4	5.25	5.75	5.8333	5.6154	5.8	5.3333
	70	5.6667	5.5125	5.8333	5.75	5.625	5.5	6	6	5.7692	6	5.5
	80	5.9333	5.75	6	5.875	5.75	5.625	6	6	5.8462	6	5.7
	90	6	5.875	6	6	5.875	5.875	6	6	6	6	6
Mean	5.1791	5.0848	5.425	5.3965	5.1791	4.9166	5.5192	5.518	5.2899	5.1845	4.6803	
Median	5.3333	5.25	5.6667	5.5	5.25	5.125	5.75	5.8333	5.4615	5.6	5	
Std. Deviation	0.82945	0.77457	0.69358	0.63512	0.63139	0.81452	0.60676	0.72198	0.66364	1.00891	1.16386	

Table 14. CHANGE Norms for Campers Age 14 and up

	FCB	COMP	RESP	IND	TW	PS	AE	FS	AN	SWB	
PERCENTILE	10	3.8333	3.875	3.8333	3.875	3.75	3.75	4	3.9231	3.8	3.1
	20	4	4	4	4	4	4	4.375	4.0769	4	3.8333
	30	4.0833	4.25	4.3333	4.125	4.25	4.125	4.625	4.3077	4.4	4
	40	4.3333	4.5	4.6667	4.375	4.5	4.25	4.875	4.6154	4.8	4.1667
	50	4.5833	4.75	4.8333	4.625	4.625	4.375	5.125	4.8462	5	4.3333
	60	4.8333	4.875	5.1667	4.75	4.875	4.625	5.25	5	5.4	4.8333
	70	5.1667	5.125	5.3333	5	5	4.875	5.5	5.3077	5.6	5.1667
	80	5.5	5.375	5.6667	5.375	5.25	5.125	5.75	5.5385	5.8	5.5
	90	5.8333	5.625	6	5.625	5.625	5.375	6	5.8462	6	6
Mean	4.6196	4.6456	4.766	4.611	43.6106	4.4738	4.9631	4.7656	4.9182	4.4711	
Median	4.5833	4.75	4.8333	4.625	4.625	4.375	5.125	4.8462	5	4.3333	
Std. Deviation	0.92523	0.8451	0.95464	0.79384	0.75273	0.76806	0.91434	0.81403	0.97979	1.09258	